
PRI cabling information

This section provides information required to build cables of nonstandard lengths for ISDN Primary Rate Interface (PRI) applications.

QCAD128/NT8D83xx

This cable transports the T1 signal from the PRI pack to the I/O panel. See [Table 45](#).

- Standard length—10 ft (3.05 m)
- Construction—15-conductor ribbon, 28 AWG (0.321 mm), stranded
- P1 Connector—15-pin, male, subminiature D, with jack-screws
- P2 Connector—15-pin, male, subminiature D, with jack-screws

Table 45
QCAD128/NT8D83xx wire list

From	To	Signal
P1-1	P2-1	XTIP (transmit tip) to telephone company
P1-2	P2-2	GND (ground)
P1-3	P2-3	RTIP (receive tip) from telephone company
P1-4	P2-4	GND (ground)
P1-5	P2-5	
P1-6	P2-6	
P1-7	P2-7	
P1-8	P2-8	
P1-9	P2-9	XRING (transmit ring) to telephone company
P1-10	P2-10	
P1-11	P2-11	RRING (receive ring) from telephone company
P1-12	P2-12	
P1-13	P2-13	
P1-14	P2-14	
P1-15	P2-15	

QCAD129/NT9J93xx

This cable connects the RS-232-C interface between an Echo Canceller and the PRI card. See [Table 46](#).

- Standard length—7 ft (2.1 m)
- Construction—22 AWG (0.644 mm), stranded
- P1 Connector—15-pin, male, subminiature D, with jack-screws
- P2 Connector—25-pin, male, subminiature D, with jack-screws

Table 46
QCAD129/NT9J93xx wire list

PRI signal	From	To	Echo signal canceller
DCD	P1-1	P2-20	DTR
RXD	P1-2	P2-2	TXD
DTR	P1-4	P2-8	DCD
TXD	P1-5	P2-3	RXD
GND	P1-10	P2-7	GND
RTS	P1-12	P2-4	
CTS	P1-9	P2-5	
TPENB (Note)	P1-15	nc	
Note: TPENB = Test Port Enable Bar			

QCAD133/NT8D83xx

For cabinets **with** an I/O filter assembly, this cable transports the T1 signal from the I/O filter to the Network Channel Terminating Equipment (NCTE) telephone company interface. See [Table 47](#).

For cabinets **without** an I/O filter assembly, this cable transports the T1 signal from the QPC720 PRI pack to the NCTE telephone company interface.

- Standard length—50 ft (15.3 m)
- Construction—Individually foil-shielded, twisted pairs, 24 AWG (0.511 mm), stranded
- P1 Connector—15-pin, female, subminiature D with jack-screws
- P2 Connector—15-pin, male, subminiature D, with slide-latch (optional spring-latch loose-packed with cable assembly)

Table 47
QCAD133/NT8D83xx wire list

Color	From	To	PRI signal
WHITE	P1-1	P2-1	XTIP (transmit tip) to telephone company
BLACK	P1-9	P2-9	XRING (transmit ring) to telephone company
GRN SHLD	P1-2	nc	GND (ground)
RED	P1-3	P2-3	RTIP (receive tip) from telephone company
BLACK	P1-11	P2-11	RRING (receive ring) from telephone company
RED SHLD	P1-4	nc	GND (ground)

QCAD328

This cable connects the PRI pack to the D-channel interface card, the QPC757 DCHI. There are four types of QCAD328 cables: QCAD328A, QCAD328B, QCAD328C, and QCAD328D. See [Table 48](#).

- QCAD328A—6 ft (1.8 m)
- QCAD328B—18 ft (5.5 m)
- QCAD328C—35 ft (10.67 m)
- QCAD328D—50 ft (15.24 m)
- Construction—24 AWG (0.511 mm), stranded
- P1 Connector—25-pin male, subminiature D
- P2 Connector—15-pin male, subminiature D

Table 48
QCAD328 wire list

From	To	Signal
P1-2	P2-2	SDA+
P1-13	P2-10	SDB-
P1-20	P2-15	TR
P1-15	P2-9	STA+
P1-14	P2-11	STB-
P1-3	P2-4	RDA+
P1-16	P2-12	RDB-
P1-17	P2-5	RTA+
P1-12	P2-13	RTB-
P1-8	P2-8	RR
P1-5	P1-8	CS
P1-7	P1-1	SG
P1-1	P2-1	GND

NT8D74 Clock Controller to InterGroup cable

This cable connects the QPC471 Clock Controller card to the NT8D36 InterGroup Module.

This cable is available in the following lengths:

- NT8D74AC 1.2 m (4 ft)
- NT8D74AD 1.8 m (6 ft)
- NT8D74AE 2.4 m (8 ft)
- NT8D74AF 3 m (10 ft)
 (QCAD110B)
- NT8D74AJ 4.8 m (16 ft)

NT8D75 Clock Controller to Clock Controller cable

This cable interconnects QPC471 Clock Controller cards.

This cable is available in the following lengths:

- NT8D75AC 1.2 m (4 ft)
- NT8D75AD 1.8 m (6 ft)
- QCAD125 3 m (10 ft)

NT8D79 PRI/DTI to Clock Controller cable

This cable connects the PRI/DTI card to the QPC471 Clock Controller card.

This cable is available in the following lengths:

- NT8D79AB 0.6 m (2 ft)
- NT8D79AC 1.2 m (4 ft)
- NT8D79AD 1.8 m (6 ft)
- NT8D79AE 2.4 m (8 ft)
- NT8D79AF 3 m (10 ft)
 (QCAD130)

NT8D83 PRI/DTI to I/O cable

This cable connects the PRI/DTI card (T1 port) to the I/O connector panel.

This cable is available in the following lengths:

- NT8D83AC 1.2 m (4 ft)
- NT8D83AD 1.8 m (6 ft)

NT8D85 Network to PE cable

This cable connects the following:

- QPC581 CMA card to QPC581 CMA card in dual CPU configuration
- QPC414 Network card to PRI/DTI card
- QPC414 Network card to QPC659 Dual Loop Peripheral Buffer card (for internal cabling only)
- QPC659 Dual Loop Peripheral Buffer card to QPC659 Dual Loop Peripheral Buffer card when connecting two NT8D13 PE Modules together

This cable is available in the following lengths:

- NT8D85AB 0.6 m (2 ft)
- NT8D85AC 1.2 m (4 ft)
- NT8D85AZ 1.5 m (5 ft)
- NT8D85AD 1.8 m (6 ft)
- NT8D85AE 2.4 m (8 ft)
- NT8D85AF 3 m (10 ft)
- NT8D85AJ 4.8 m (16 ft)
- NT8D85AL 6 m (20 ft)
- NT8D85AP 7.6 m (25 ft)
- NT8D85AV 13.7 m (45 ft)

NT8D86 Network to I/O cable

This cable connects the following to the I/O connector panel:

- QPC414 Network card
- PRI/DTI card
- QPC659 Dual Loop Peripheral Buffer card
- NT8D47 RPE

This cable is available in the following lengths:

- NT8D86AC 1.5 m (5 ft)
- NT8D86AD 1.8 m (6 ft)

NT8D97AX PRI/DTI I/O to MDF cable

This cable connects the PRI/DTI card to the MDF through the I/O connector panel. It is 15.2 m (50 ft) long.

NT9J93AD PRI/DTI Echo Cancellor to I/O cable

This cable connects the PRI/DTI Echo Cancellor port to the I/O connector panel. It is 1.8 m (6 ft) long.

NTND26 PRI to MSDL cables

These cables connect the MSDL card to the PRI cards.

- NTND26AA 6 feet
- NTND26AB 18 feet
- NTND26AC 35 feet
- NTND26AD 50 feet

NTND27 MSDL to I/O panel cables

These cables connect the MSDL card to the I/O panel.

— NTND27 6 ft

NTND98 PRI to I/O panel cables

These cables connect the PRI card to the I/O panel.

— NTND98 6 ft